

Title (en)
METHOD FOR REPAIRING TURBOMACHINE BLADES

Title (de)
VERFAHREN ZUR REPARATUR VON TURBOMASCHINENSCHAUFELN

Title (fr)
PROCEDE DE REPARATION D'AUBES DE TURBOMACHINES

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Abstract (en)
[origin: WO2006026955A1] The invention relates to a method for repairing turbomachine blades (10), in particular gas turbine blades on integral bladed gas turbine rotors. The method comprises at least the following steps: a) a turbo machine blade which is to be repaired or an integral bladed rotor which is to be repaired having a damaged blade section is prepared; b) the damaged blade section is removed from the turbomachine blade or the integral bladed rotor which leaves a blade stump; c) the blade stump is mounted at least in the region of a flow entry edge (12) and a flow exit edge (13) thereof in a cooling device (11); d) a point-shaped welding pearl (20) is applied in the region of the flow entry edge (12) and the flow exit edge (13) of the blade stump by laser powder deposition welding, the welding pearls (20) protruding at least over the flow entry edge (12) and the flow exit edge (13), e) material is applied by laser powder deposition welding between the welding pearls (20) in the region of the or each removed blade section in order to renew the corresponding blade section.

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